RICOH Americas Corporation

RFG# 058316

Product Support Guide
D179 / D180 / D181

Introduction

Model Type	B/W MFP
Launch Date	August 15, 2013
Serial Number Prefix	E80 / E81 / E82
Product Code	**D179 / D180 / D181**

Brand/Model Name

Product Code	Lanier	Ricoh	Savin
D179	**Pro 8100EX Pro 8100s**	**Pro 8100EX Pro 8100s**	**Pro 8100EX Pro 8100s**
D180	**Pro 8110s**	**Pro 8110s**	**Pro 8110s**
D181	**Pro 8120s**	**Pro 8120s**	**Pro 8120s**

Product Concept:

The D179/D180/D181 is a monochrome product and is a successor to the D059/D060/D061 series. These models can output 95ppm, 110ppm and 135ppm. While the predecessor D059/D060/D061 models are mostly used in the office market, the target market for D179/D180/D181 series has been expanded to also attract users in the POD market where higher customer demands are expected. The D179/D180/D181 adopts New CPU with doubled processing power compared to D059/D060/D061 and New Memory Architecture with faster throughput. D179/D180/D181 improves ADF productivity from D179/D180/D181. The 95ppm model achieves rated speed on copy 1 to 1 feature. With one pass duplex mechanism all models achieves rated speed in 1 to 1 duplex mode. The new Single Pass ADF is also equipped with double feed detection sensor which prevent missing pages caused by double feeding of originals.

Product Support Guide
D179 / D180 / D181

Main Frame

Item	RFG Model Name	EDP Code	Notes
D179	Lanier Pro 8100EX Ricoh Pro 8100EX Savin Pro 8100EX	404524	95ppm, this D179 is the "Basic" model is only available in North America and does not have the Scanner/Printer unit preinstalled at the factory. It can be upgraded with a Printer/Scanner option.
D179	Lanier Pro 8100s Ricoh Pro 8100s Savin Pro 8100s	404592	95ppm, equipped with Printing/Scanning function standard
D180	Lanier Pro 8110s Ricoh Pro 8110s Savin Pro 8110s	404593	110ppm, equipped with Printing/Scanning function standard
D181	Lanier Pro 8120s Ricoh Pro 8120s Savin Pro 8120s	404594	135ppm, equipped with Printing/Scanning function standard

NOTE: Order Numbers are provided for reference purposes only. Please use your Pricing Guide for proper order numbers to insure you receive the correct branding emblem.

Order Number

Options

Item	Description	EDP Code	Product Code	Common / Unique	Notes
RT5070	A4/LT LCIT	404536	D733	U	
RT5080	A3/DLT LCIT	404537	D732	U	
BY5010	Multi-Bypass Tray	404387	D517	C	must have RT5070 or RT5080
DU5030	De-curl Unit	404538	D741	U	
CI5030	Cover Interposer Tray	404539	D738	U	
FD5020	Multi-Folding Unit	404540	D740	U	
SR5050	Finisher	404548	D735	U	
SR5060	Booklet Finisher	404550	D734	U	
TR5040	Trimmer Unit	404400	D520	C	must have SR5060
PU5020	Punch Unit NA	404177	D449	C	for use with SR5050/SR5060
Printer/Scanner Unit Type S1	Printer/Scanner SD Card	404555	D726-02	U	for D179 Basic Model only
Post Script 3 Unit Type S1	Post Script 3 option	404559	D726-08	U	
Browser Unit Type S1	Browser Unit	404566	D726-15	U	

Item	Description	EDP Code	Product Code	Common / Unique	Notes
File Format Converter Type E	File Format Converter	414007	D377-04	C	
OCR Unit Type M2	OCR Unit Type	416605	D166-25	C	
Copy Data Security Unit Type G	Copy Data Security Unit	416391	D640-41	C	
Data Overwrite Security Type H	Data Overwrite Security	416373	D377		
IPDS Unit Type S1	IPDS	404562	D726-02	U	
NetWare Printing Type S1	NetWare Printing SD Card	404565	D726-19	U	
IEEE 802.11 a/g/n Interface Unit Type M2	IEEE 802.11 a/g/n Interface Board	416572	D164	C	
Bluetooth Interface Unit Type D	Bluetooth Interface	415818	D566-01	C	
IEEE1284 Interface Board Type A	IEEE1284 Interface Board	411699	B679-17	C	
GB5010	Perfect Binder	404542	D736-17	U	
Transit Pass Unit for Perfect Binder Type S1	Transit Pass Unit for Perfect Binder	404544	D736-04	U	required for GB5010
Cover Interposer Tray for Perfect Binder Type S1	Cover Interposer Tray for Perfect Binder	404545	D736-02	U	required for GB5010
RB5020	Ring Binder	404546	D737-17	U	
Copy Connector Type 3260	Copy Connector	412415	B328-11	C	
Option Counter Interface Unit Type A	Counter Interface Unit	413012	B870-11	C	
Key Counter Bracket Type 1027	Key Counter Bracket	412537	B452-57	C	
Unicode Font Package SAP 1 License	Unicode Font Package	413009	B869-01	C	
Unicode Font Package SAP 10 Licenses	Unicode Font Package	413010	B869-02	C	
Unicode Font Package SAP 100 Licenses	Unicode Font Package	413011	B869-03	C	
Ricoh Brand Plaque	Ricoh Plaque for PP Products	404585	D762-00	U	
Savin Brand Plaque	Savin Plaque for PP Products	404586	D762-01	U	
Lanier Brand Plaque	Lanier Plaque for PP Products	404587	D762-02	U	

Supplies/Yields

Item	Name	Order Code	Target Yield
			P/J_6%
Ricoh / Lanier / Savin			
Toner	Pro Toner 8100S	828277	82,000 sheets/bottle
Developer	Developer Black	D1799640	860k copies/bottle
TCRU/ORU Type 8100 (Set A)	*TCRU A*	404552	
TCRU Type 8100 (Set B)	TCRU B	404553	
Glue Supply Type A	Glue Supply	404103	
Ring Opener Type A	Ring Opener	404114	
Ring Cartridge LT Type RB5000	Ring Cartridge LT	404115	
Ring Supply LT White 100 Type A	Ring Supply LT	404117	
Ring Supply LT Black 100 Type A	Ring Supply LT	404118	
Ring Supply LT White 50 Type A	Ring Supply LT	404118	
Lanier			
Staple Refill Cartridge	Refill Staple Type M	413028	
Staple Set Cartridge	Staple Type M	413015	
Ricoh			
Staple Refill Cartridge	Refill Staple Type M	413026	
Staple Set Cartridge	Staple Type M	413013	
Savin			
Staple Refill Cartridge	Refill Staple Type M	413016	
Staple Set Cartridge	Staple Type M	413029	

Note: Supply Yield Condition:

- ISO/IEC19752 & 3 page per job at 6% coverage is used to measure the above cartridge yields
- The condition is standard temperature and humidity
- This yield number may change depending on the circumstances and printing conditions
- Storage period for toner is 18 months

MFP Option Compatibility

	1	2	3	4	5	6	7	8	9	10	11	12	13
1. Multi Bypass Tray (BY5010)		1	1										
2. A4/LT LCT (LCIT RT5070)			X										
3. A3/DLT LCT (LCIT RT5080)		X											
4. Decurl Unit (DU5030)													
5. Perfect Binder (GB5010)								X					
6. Cover Interposer Tray (CI5030)													
7. Multi-Folding Unit (FD5020)													
8. Ring Binder (RB5020)					X								
9. Finisher (SR5050)										X	X	M	
10. Booklet Finisher (SR5060)									X		M	X	
11. Trimmer Unit (TR5040)									X	M		X	
12. Plockmatic Booklet Maker									M	X	X		
13. GBC Stream Punch													

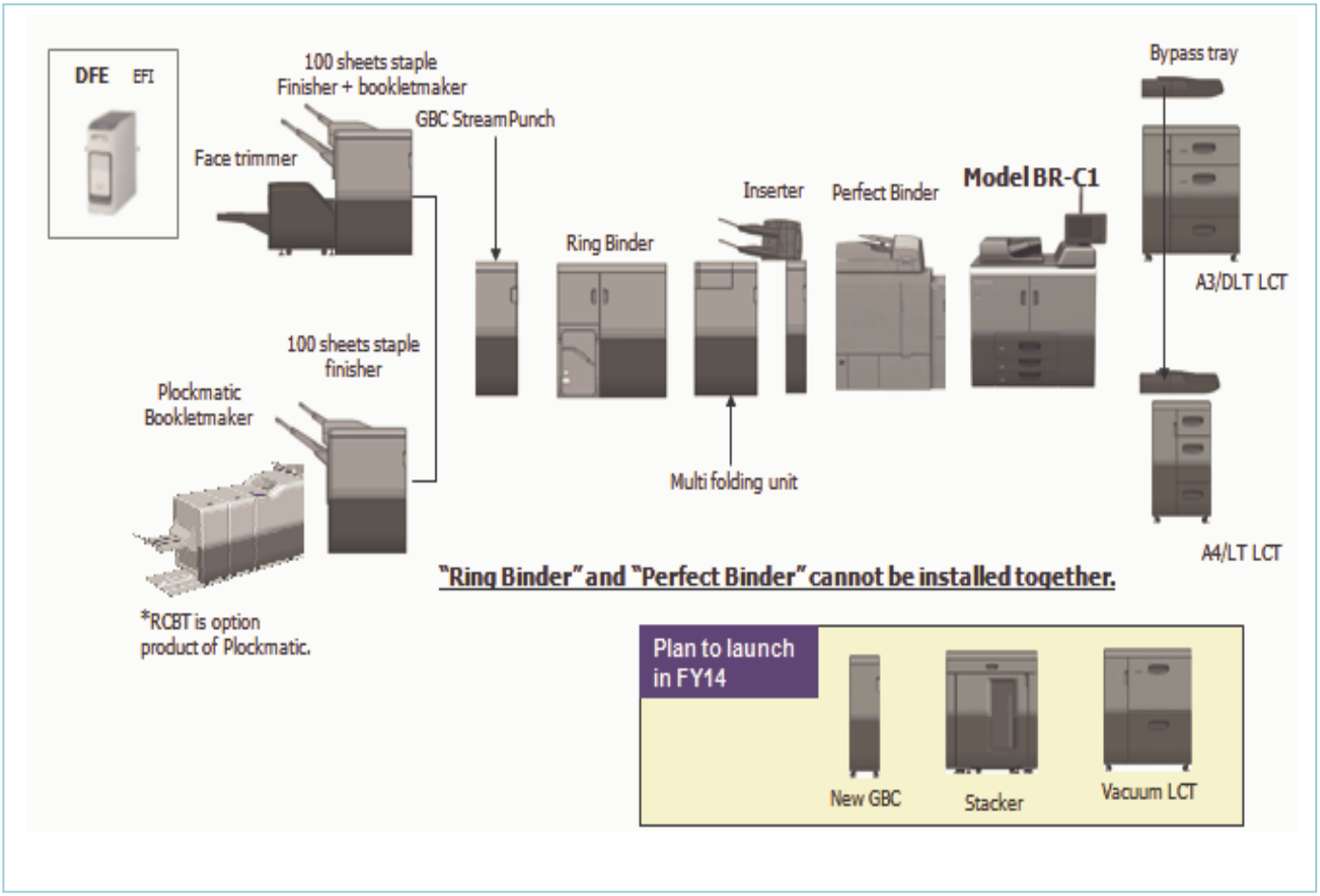
Branding Information

Branding is required as the machines are shipped as a generic version.

- **Ricoh version machines:** You must attach the model label (provided) to the front cover
- **Savin / Lanier:** You must attach the model label (provided) to the front cover and set the Plug and Play brand name with SP5907

Configuration

Main Frame Configuration

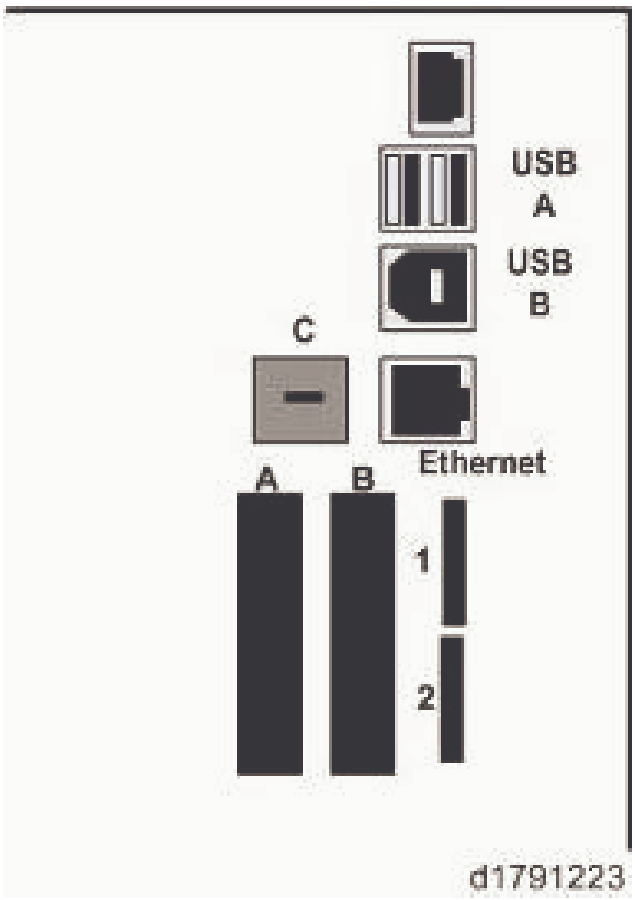


Feature Comparison to Previous Version

- ADF: Similar to D135 / D136 / D137 / D138
- Scanner: Similar to D135 / D136 / D137 / D138
- Image Processing: Similar to D135 / D136 / D137 / D138
- Laser Unit: Similar to D074 / D075
- Toner Supply: New
- Photoconductor Unit (PCU): Similar to D095 / M077
- Development Unit: Similar to D095 / M077
- Image Transfer Belt Unit: New
- ITB Cleaning Unit: Similar to D074 / D075
- Process Control: Similar to previous models, but improved from D059 / D060 / D061 (elements from D074 / D075 and D095 / M077 are included)
- Paper Transfer: Similar to D074 / D075
- Paper Transport Belt: Similar to D074 / D075
- Fusing Unit: New
- Paper Feed Unit: Similar to D059 / D060 / D061
- Paper Registration: Similar to D074 / D075
- Paper Switch Back and Duplex Pass unit: Similar to D074 / D075
- Used Toner Collection System: New

Controller Options

MFP Option Board Slot / SD Card Assignments



Number	Name	Slot for Installation
1	Printer/Scanner Unit Type S1	1
2	IEEE 1284 Interface Board Type A	B
3	IEEE 802.11a/g/n Interface Unit Type M3	B
4	Bluetooth Interface Unit Type D	USB A
5	PostScript3 Unit Type S1	2
6	IPDS Unit Type S1	2
7	File Format Converter Type E	B
8	Copy Data Security Type G	Controller Board
9	Browser Unit Type S1	2
10	Data Overwrite Security Unit Type H	2
11	SD Card for NetWare Printing Type S1	2
12	OCR Unit Type M2	2

Important Note:
The IEEE 1284, IEEE802.11 (Wireless LAN), and File Format Converter (2, 3, and 7 in the table) are exclusive. Only one can be installed at a time.

Installation

Installation Requirements

Temperature Range:	10° C ~ 32° C (50° F ~ 89.6° F)
Humidity Range:	15% ~ 80% RH
Ambient Illumination:	Less than 1,500 lux (do not expose to direct sunlight)
Ventilation:	3 times/hr/person
Ambient Dust:	Less than 0.010 mg/m^3 (2.0 x 10-6oz/yd^3)

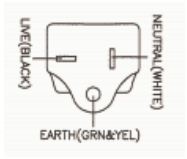
Avoid areas exposed to sudden temperatures changes:

- Areas directly exposed to cool air from an air conditioner
- Areas directly exposed to cool air from a heater

Do not place machine where it will be exposed to corrosive gas or vapor.
Do not install the machine at any location over 2,000m (6,500 ft.) above sea level.
Place the machine on a strong and level base. Inclination on any side should be no more than 5mm (0.2")
Do not place the machine where it may be subject to strong vibrations.
Machine level

- Front to back: within 5mm (0.2") of level
- Right to left: within 5mm (0.2") of level

Power Requirements

Power Source	208～240V, 50/60Hz
Plug	
Plug type	NEMA 6-20P
Connection to mainframe	Replaceable

NOTE: Do not place anything on power cord.

Power Consumption / Noise Emission

Power Consumption

Power consumption	BTU
D179 / D180 / D181	C1a: 3,100W, C1b: 3,400W, C1c: 3,600W

Noise Emission

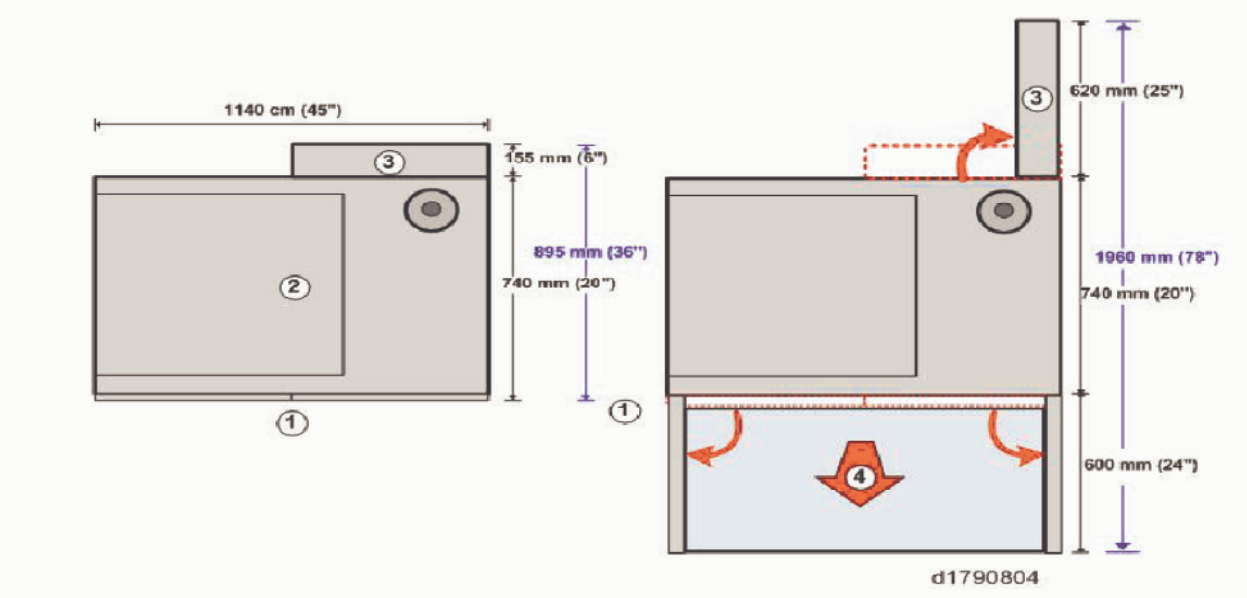
D179	Information not available at product launch
D180	Information not available at product launch
D181	Information not available at product launch

The above measurements were made in accordance with ISO 7779.
The measurements were taken from the normal position of the operator.

Space

Footprint of Mainframe

Overhead view, intact **Overhead view, doors extended open**



- For optimal performance, it is recommended for the machine to be installed and leveled with a minimum of 8” clearance between the rear of the mainframe and the wall to allow for proper ventilation and circulation
- Placement must consider 25” clearance behind mainframe to allow for the controller box to be fully extended open
- The first item upstream (mainframe or LCIT) in the configuration should be placed with a minimum of 4” clearance between the right side and the wall to allow for ventilation and service access
- The last item downstream (Finisher or Trimmer) should be placed with a minimum of 4” clearance from the edge of the outermost tray fully extended to allow for ventilation and access
- The machine must be positioned so that an operator has sufficient space to access the operation control panel and a minimum of 24” space to add toner and open both front doors to allow the drawer to be completely extended
- Consider sufficient size of area for placement of peripherals
- Refer to requirement guidelines on previous page

Installation Times

Mainframe: 30 minutes - The developer comes pre-installed and do not have to be installed when setting up the machine, allowing time reduction.

Peripherals Table:

Unit	Installation Time (minutes)	Unit	Installation Time (minutes)
RT5070 LCIT	15 min.	Printer/Scanner Unit	5 min.
RT5080 LCIT	15 min.	Post Script 3	5 min.
BY5010 Multi Bypass	10 min.	Browser Unit	5 min.
DU5030 Decurl Unit	15 min.	File Format Converter	5 min.
CI5030 Cover Interposer	15 min.	OCR Unit	5 min.
FD5020 Multi Folding Unit	15 min.	Copy Data Security	5 min.
SR5050 Finisher	15 min.	IPDS Unit	5 min.
SR5060 Booklet Finisher	15 min.	NetWare Printing	5 min.
TR5040 Trimmer Unit	15 min.	IEEE 802.11 a/g/n Interface	5 min.
PU5020 Punch Unit	10 min.	Bluetooth Interface	5 min.
GB5010 Perfect Binder	120 min. including TP&CI	IEEE1284 Interface	5 min.
GB5010 Transit Pass	120 min. including TP&CI	Unicode Fonts 1 License	5 min.
GB5010 Cover Interposer	120 min. including TP&CI	Unicode Fonts 10 License	5 min.
RB5020 Ring Binder	15 min.	Unicode Fonts 100 License	5 min.
Counter Interface	5 min.	SD Card for Fonts	5 min.
Key Counter Bracket	5 min.	Copy Connector	15 min.

Recommended Print Volumes

Items	D179	D180	D181
Average Print Volume	100k/month	150k/month	250k/month
PM cycle	600k	600k	600k
Recommended Monthly Volume Range	100K – 600K	150K – 800K	250K – 900K
Maximum Monthly Output	1000K		
Machine Life Target	60000K		

Notes: The figures above are calculated based on the following:

- PM is regularly performed
- Recommended paper types are used
- The machine is installed under operable environmental conditions
- A4/LT LEF (Simplex)

Parts / Special Tools / Maintenance

PM Parts / Yields

Mainframe

Part Number	Description	Q'ty/ Unit	Target Yield (pages)	Unique or Common
PCDU				
D1799640	DEVELOPER BLACK	1	860k	U
D1793581	BLADE:CLEANING:ASS'Y	1	640k	U
D1793631	COATING BAR:ASS'Y	1	640k	U
D1793651	BLADE:APPLY:ASS'Y	1	640k	U
D1793641	BRUSH ROLLER:APPLY:ASS'Y	1	640k	U
D1793535	CLEANING UNIT:SERVICE PART GEAR	1	1800k	U
D0742459	JOINT:CLEANING UNIT	1	600k	C (*1)
D1799510	OPC DRUM	1	2500k	U
G1782500	GRID:CHARGE CORONA	1	1000k	C (*2)
D1792224	CORONA WIRE:CHARGE CORONA	3	1000k	U
G1782502	CUSHION:CORONA WIRE	6	1000k	C (*2)
G1782507	CLEANER:GRID:ASS'Y	1	1000k	C (*2)
G1782510	CLEANER:CORONA WIRE:ASS'Y	3	1000k	C (*2)
ITB Unit				
D1796050	FLAT BELT-TRANSFER	1	2400k	U
D1796051	ROLLER:INTERMEDIATE TRANSFER:ASS'Y	1	1350k	U
PTR Unit				
D1796250	TRANSFER ROLLER	1	800k	U
D1796300	SEPARATION CORONA:ASS'Y	1	600k	U
D0746265	BLADE:TRANSFER ROLLER:ASS'Y	1	600k	C (*1)
G1786767	COATING BAR:TRANSFER ROLLER:ASS'Y	1	600k	C (*2)
D0746257	BRUSH ROLLER:APPLY:ASS'Y	1	600k	TBA
AB011125	GEAR:IDLER:BRUSH ROLLER	1	3000k	C (*1)
AB011126	GEAR:BRUSH ROLLER:Z20	1	3000k	C (*1)
D0746312	GEAR:IDLER:TRANSFER ROLLER	1	3000k	C (*1)
D1796311	GEAR:TRANSFER ROLLER	1	3000k	U
ITB Cleaning Unit				
D0746424	BLADE:CLEANING:BELT CLEANING:ASS'Y	1	600k	C (*1)
D0746446	BRUSH:APPLY:BELT CLEANING	1	600k	C (*1)
D0746451	COATING BAR:ASS'Y	1	600k	C (*1)
D0746457	BLADE:APPLY:ASS'Y	1	600k	C (*1)
Fusing Unit				
D0744197	FLAT BELT-FUSING:DIA80:SEAL	1	1100k	C (*1)
AE010118	HOT ROLLER:DIA54:ASS'Y	1	1800k	U
AE020220	PRESSURE ROLLER:DIA65	1	1100k	U
AE045062	WEB:SUB-ASS'Y	1	750k	C (*3)
D0744333	ROLLER:PLATE	1	3190k	C (*1)

Part Number	Description	Q'ty/ Unit	Target Yield (pages)	Unique or Common
Paper Feed				
AF030072	PAPER FEED ROLLER:PICKUP	3	1000k	C (*1)
AF031080	PAPER FEED ROLLER:FEED	3	1000k	C (*4)
AF032080	PAPER FEED ROLLER:SEPERATE	3	1000k	C (*4)
Filters				
D1796889	FILTER: MAIN: EXHAUST: RIGHT	1	600k	U

Note: These items are common with following:
(*1): Common with D074/D075
(*2): Common with D095
(*3): Common with D137/D138
(*4): Common with D059/D060/D061

ADF

Part Number	Description	Q'ty/ Unit	Target Yield (originals)	Unique or Common
D5412121	PAPER FEED BELT	1	100k	C (*3)
D6832228	PICKUP ROLLER	1	120k	C (*3)
D5412241	REVERSE ROLLER:PAPER FEED	1	100k	C (*3)

Note: These items are common with followings:
(*3): Common with D137/D138

LCIT RT5070

Part Number	Description	Q'ty/ Unit	Target Yield (pages)	Unique or Common
AF030080	PAPER FEED ROLLER:PICKUP	3	1000k	C (*5)
AF031083	PAPER FEED ROLLER:FEED:MANUAL FEED	3	1000k	C (*5)
AF032080	PAPER FEED ROLLER:SEPARATE	3	1000k	C (*5)

Note: These items are common with followings:
(*5): Common with A4/LT LCT for D059/D060/D061

LCIT RT5080

Part Number	Description	Q'ty/ Unit	Target Yield (pages)	Unique or Common
AF030080	PAPER FEED ROLLER:PICKUP	3	1000k	C (*6)
AF031083	PAPER FEED ROLLER:FEED:MANUAL FEED	3	1000k	C (*6)
AF032080	PAPER FEED ROLLER:SEPARATE	3	1000k	C (*6)

Note: These items are common with followings:
(*6): Common with A3/DLT LCT for D074/D075

Perfect Binder GB5010

Part Number	Description	Q'ty/ Unit	Target Yield (pages)	Unique or Common
D3911000	CUTTER UNIT:PF4140K399A	1	40k	C (*7)
D3911271	GUIDE PLATE:SLIDE:PAPER CHIP:PF4140K461C	1	40k	C (*7)
D3911481	SHEET:TURN:PF4140Q204	2	40k	C (*7)
D7362410	Stack Rotation Vibrating Plate	1	40k	U
D3911301	ROLLER:PF4140P243A1	2	1100k	C (*7)
D3911277	ROLLER:WING:2:PF4140L394A	1	1100k	C (*7)
D3911276	ROLLER:WING:PF4140L393A	4	1100k	C (*7)
D3911295	ROLLER:PLATE:TRAILING EDGE:PF4140P220A1	4	1100k	C (*7)
D3911284	ROLLER:PLATE:TRAILING EDGE:PF4140P131A1	2	1100k	C (*7)
D3915303	HARNESS:RIGHT:PF4140K783	1	1200k	C (*7)
D3915302	HARNESS:LEFT:PF4140K781	1	1200k	C (*7)
D3915314	HARNESS:PAPER FEED SENSOR:PF4140K782	1	1200k	C (*7)
D7365332	Stack Rotation Up-down Harness	1	1200k	U
D7365333	Stack Rotation Grip Harness	1	1200k	U
D7365334	Stack Rotate Press LED Harness	1	1200k	U
D3914086	PICKUP ROLLER:PF3091P302A	8	100k	C (*7)
D3914084	ROLLER:SEPARATION:PF3091P300A	4	100k	C (*7)
D3914085	PAPER FEED ROLLER:PF3091P301A	4	100k	C (*7)
D3911415	RECEIVE PLATE:EDGE:FM1-B633-000	1	5.5k	C (*7)
D3911257	TORQUE LIMITER MECHANICAL CLUTCH:PF3064K029B	1	1000k	C (*7)
D3911348	FILTER:VOC:PF4140P915A	3	1000k	C (*7)
D3911301	ROLLER:PF4140P243A1	2	1000k	C (*7)
D3915296	DC STEPPER MOTOR:PF4140R405	2	15000k	C (*7)
D3915277	DC MOTOR:PF4140K643	2	100k	C (*7)
D7361001	PRESSURE SENSORPF4140L418	1	50k	U
D3911270	DIODE:TORQUE:PF4140K458A1:ASS'Y	1	50k	C (*7)
D3915287	DC MOTOR:PF4140K918	1	50k	C (*7)
D3911427	TORQUE LIMITER MECHANICAL CLUTCH:PF4140Q422	1	50k	C (*7)
D3911275	GLUE:TUB:UNIT:PF4140L386A	1	2k hours	C (*7)
D3911395	SCREW SHAFT:PF4140Q483A	1	20k	C (*7)
D3911299	Sign/Stacking Discharge Brush	1	2000k	C (*7)
D3911329	DISCHARGE BRUSH: REGISTRATION:SIDE:PF4140P625A	1	2000k	C (*7)
D3915289	Booklet Stack Drawer Connector	1	20k	C (*7)
D3911519	SPROCKET:PF4140L508:ASS'Y	3	150k	C (*7)

Note: These items are common with followings: (*7): Common with Perfect Binder GB5000

Storage/Transportation

	Temperature	Humidity	Storage Period
Toner (*1) Developer (*1)	Under 95°F	Transportation 15~95%RH / Storage ~85%RH	12 months
	96.8°F~104°F	Transportation 15~95%RH / Storage ~85%RH	1 month
	105.8°F~113°F	Transportation 15~95%RH / Storage ~85%RH	12 hours

NOTE: (*1) Do not store toner more than 12 hours while the temperature is between 104°F and 122°F. Do not store more than a month while the temperature is between 95°F and 104°F. Store in a dry, dark place where temperature does not exceed 104°F on continuance storage/transportation conditions.

Special Tools & Lubricants

Part Number	Description	Common or Unique
A0069104	Scanner Positioning Pin (4 pcs./set)	C
A0929503	Test Chart-C4 (3 pcs./set)	C
A0299387	Digital Multi-meter: FLUKE 87	C
B6455010	SD Card	C
C4019503	20x Magnification Scope	C
D1793421	Development Unit Jig Handle	U
D1793420	Development Doctor Blade Jig Sheet	U
D1796191	ITB Positioning Jig (Driver Roller Side)	U
D1796192	ITB Positioning Jig (Belt Cleaning Side)	U
A2579300	Grease Barrierta - S552R	C
52039502	Silicone Grease G-501	C
B1329700	Drum Setting Powder	C
VSSG9002	FLUOTRIBO MG Grease	C
D0159501	Setting Powder / Zinc Stearate	C
D0159500	Yellow Toner	C

Specifications / Documentation
Mainframe Feature

Hardware Specifications

Items			Specification	Remarks
Configuration			Console	
Print/Copy Process			1-drum dry electrostatic transfer system with internal transfer belt	
Fusing			Oil-less belt-fusing method	
Technology	Reading element		Lower side*: 4 channel CCD array image-sensing element Upper side: 3-line CMOS CIS (Contact Image Sensor)	*Contact glass side
	Printing processing		40-beam VCSEL (Vertical Cavity Surface Emitting LASER) Technology	-> 1200x4800 dpi
Engine Speed	Plain Paper		D179 - 95ppm D180 - 110ppm D181 - 135ppm	A4/LT(LEF)
	Coated Paper		D179 - 95ppm D180 - 110ppm (256.1~300g/m²: 95ppm) D181 - 135ppm (256.1~300g/m²: 110ppm)	
Warm up time			360 seconds or less	room 23°C / 73.4°F
Limitless Paper Supply			Supported	
Dimensions (W x D x H)			1320 x 1110 x 1460mm (51.9 x 43.7 x 57.4 inches)	
Net Weight			415kg (914.9 pounds)	
Power Source			NA:208-240V, 50/60Hz, 20A	
Max. Power Consumption			NA: D179: 3,100W, D180: 3,400W, D181: 3,600W	
Output Capacity	Finisher		3,000 + 250 sheets	
	Booklet Finisher		2,500 + 250 sheets	
	Stacker		Not currently supported	
Max Print Area			320 x 480mm / 12.59 x 18.89 inches	
Toner Bottle			Two Bottles (1730g / 61.02oz each)	
ARDF			Standard	
Input Capacity	Standard		Tray 1: 1,100 sheets x 2 (Tandem Tray) Tray 2: 550 sheets Tray 3: 550 sheets Total: 3,300sheets	Capacity is calculated using paper that is 0.1 mm thick or 80g/m², 20# Bond
	Option LCT	A4/LT LCT	Tray 4: 1,100 sheets Tray 5: 1,100 sheets Tray 6: 2,800 sheets Total: 5,000sheets	
		A3/DLT LCT	Tray 4: 1,100 sheets Tray 5: 2,200 sheets Tray 6: 1,100 sheets Total: 4,400sheets	
	Multi Bypass Tray (Option)		Tray 7: 550 sheets	
	Max (System)		w/ A4/LT LCT: 8,850 sheets w/ A3/DLT LCT: 8,250 sheets	

Items			Specification	Remarks
Input Paper Size	Tray 1		A4 (LEF) / LT (LEF)	
	Tray 2 & 3		A3 SEF ~ A5 LEF, B4 SEF ~ B5 LEF, 11x17 SEF ~ 5.5x8.5 LEF <Custom Size Paper> Width: 139.7~330.2mm (5.50~13.00 inch) Length: 139.7~457.7mm (5.50~18 inch)	
	A4/LT LCT	Tray 4~6	A4 LEF ~ A5 LEF/SEF, B5 LEF, 8.5x11 LEF ~ 5.5x8.5 LEF/SEF <Custom Size Paper> Width: 139.7~305.0mm (5.50~12.00 inch) Length: 139.7~230.0mm (5.50~9.05 inch)	
	A3/DLT LCT	Tray 4~6	A3 SEF ~ A6 SEF, B4 SEF ~ B6 SEF, 11x17 SEF ~ 5.5x8.5 LEF <Custom Size Paper> Width: 100.0 ~ 330.2mm (3.94~13.00 inch) Length: 139.7 ~ 487.7mm (5.50~19.20 inch)	
	Bypass	Tray 7	A3 SEF ~ A6 SEF, B4 SEF ~ B6 SEF, 11x17 SEF ~ 5.5x8.5 LEF <Custom Size Paper> Width: 100.0~330.2mm (3.94~13.00 inch) Length: 139.7~487.7mm (5.50~19.20 inch)	
Input Paper Weight	Tray 1, 2, 3		52.3~256g/m², 14# Bond ~ 95# Cover	
	A4/LT LCT	Tray 4&5	52.3~216g/m², 14# Bond ~ 80# Cover	
		Tray 6	52.3~163g/m², 14# Bond ~ 90# Index	
	A3/DLT LCT	Tray 4	52.3~256g/m², 14# Bond ~ 95# Cover	
		Tray 5	40.0 ~ 300g/m², 11# Bond ~ 110# Cover	
		Tray 6	52.3 ~ 256g/m², 14# Bond ~ 95# Cover	
	Bypass	Tray 7	52.3 ~ 256g/m², 14# Bond ~ 95# Cover	
Input Paper Weight	Print Mode	Simplex	40 ~ 300g/m², 11# Bond ~ 110# Cover	
Input Paper Weight	Print Mode	Duplex	52 ~ 300g/m², 14# Bond ~ 110# Cover Note: Over 256g/m² thick paper is limited support. Need prior test of each paper brand.	
Auto Duplex Printing / Inverter Output		13”x19.2” ~ HLT (5.5”x8.5”) <Custom Paper Size> 105.0 ~ 330.2mm (4.13” ~ 13.0”) 139.7 ~ 487.7mm (5.5” ~ 19.2”)		
		Paper Thickness	52.3 ~ 300g/m²	Over 257g/m² thick paper is limited support
		Inverter Exit Paper	40 ~ 300g/m²	

GW+ Controller Specification

Items	Specification	Note
CPU	1.86GHz	Intel® Celeron® Processor P4505
RAM	2GB	
HDD	187.5GB x2 (Usable area)	250GB x2 on board
Interface Standard Option	USB2.0 Type A (back 2 ports, operational panel 1 port) USB2.0 Type B (1 port) Ethernet (1000BASE-T/100BASE-TX/10BASE-T) SD slot	
	IE1284 ECP, IEEE802.11a/b/g/n, Bluetooth	
Network Protocol	TCP/IP (Standard) IPX/SPX (with NetWare option)	

Copier Feature
General Features

Items	D179 / D180 / D181	Remarks
Original Type	Book / Sheet / Object	
Original size	Max A3, 11"x17", 297x432mm	actual max scan is 11.69"x17"
Copy/Print size	<Standard Size> See Section "13.1.1 Supported Paper Size by Input Tray" <Custom Size Paper> Width: 100.0~330.2mm (3.94~13.00 inch) Length: 139.7~487.7mm (5.50~19.20 inch)	actual paper size
1st Copy speed (Face-up)	Model D179 6.3 sec. Model D180 5.6 sec. Model D181 4.6 sec.	A4/LT LEF from 1st input tray in platen mode (w/o finisher)
Multi copy speed	- ADF 1 to 1 (A4: SPXtoSPX / /DPXtoDPX) Model D179 95/95cpm Model D180 110/110cpm Model D181 120/135cpm - Memory retention (A4/A3) Model D179 95/52cpm Model D180 110/61cpm Model D181 135/76cpm	A4 / 8.5"x11" LEF, no R/E Under 220.1g/m² thick only. Speed with over 220.1g/m² thick paper follows engine spec.
Multiple copying	Up to 9,999 sets	
Max resolution	1200x4800 dpi (Copier) 600 dpi (Scanner)	
Tone (per pixel)	Scanning: 8 bit / pixel	
Warm-up time	Less than 360 seconds	condition of 23°C / 73.4°F

Items	D179 / D180 / D181	Remarks	
Reproduction Ratio (Enlarge)	NA models	121, 129, 155, 200, 400%	5E presets
Reproduction Ratio (Reduce)	NA models	93, 85, 78, 73, 65, 50, 25%	7R presets
Zoom	25% ~ 400%	in 1% step	
Image adjustment	Sharp/Soft	7 levels	
	Contrast	9 levels	
	Background Density Adjustment	9 levels	
Interrupt copy	Standard		
User code	8 digits / 1000 user codes		

Printer Features
General Features

Items		Specification	Remarks
CPU		Intel® Celeron® Processor P4505 1.86GHz	
RAM	Standard	Basic Model Standard: 2GB (2GB x1) SP Model Standard: 2GB（2GB x1）	
Hard Disk Drive		Standard: 500GB (250GB x 2)	
PDL	Standard	Standard: PCL6, PCL5e, PDF	
	Option	Adobe PostScript 3, Genuine IPDS, XPS	
Continuous Print Speed	Max.	D181=135ppm, D180=110ppm, D179=95ppm	A4/LT
Print Resolution	Max.	1200x1200 dpi	
Fonts	Standard	PCL: 45 fonts, 13 International fonts	
	Option	PS3: 136 fonts IPDS: 108 fonts	
Host Interface	Standard	Ethernet (1000BASE-T*/100BASE-TX/10BASE-T), USB2.0 TypeA(2 port on back of the machine, 1 port on operational panel), TypeB, SD Slot on operational panel	* Ethernet 1000Base-T on board but needs to be selected by user
	Option	IEEE1284/ECP Wireless LAN (IEEE802.11a/b/g/n) Bluetooth	Bluetooth cannot be used on USB port on operation panel. Wireless LAN and Bluetooth option cannot be used at the same time.
Network Protocol		Standard: TCP/IP Option: IPX/SPX (NetWare Option)	
Support	Standard MIB	MIB-II (RFC1213), Host Resource (RFC1514), Printer MIB (RFC1759), Printer Port Monitor MIB	
	Private MIB	Ricoh Original	

Items		Specification	Remarks
Rendering Resolution	PCL5e	-300 x 300 dpi -600 x 600 dpi <Gradation *> Fast (1bit)	* With the combination of 'Resolution' and 'Gradation' or 'Printing Mode' settings in printer drivers, the variation of print resolution.
	PCL6	-600 x 600 dpi -1200 x 1200 dpi <Gradation *> Fast (1bit)	* With the combination of 'Resolution' and 'Gradation' or 'Printing Mode' settings in printer drivers, the variation of print resolution.
	PS3	-600 x 600 dpi -300 x 300 dpi -1200 x 1200 dpi <Gradation *> Fast (1bit)	* With the combination of 'Resolution' and 'Gradation' or 'Printing Mode' settings in printer drivers, the variation of print resolution.
	XPS *	-600 x 600 dpi -1200 x 1200 dpi <Printing Mode *> Standard (1bit)	*With the combination of 'Resolution' and 'Gradation' or 'Printing Mode' settings in printer drivers, the variation of print resolution as listed below. *We highly recommend applying ServicePack1 to Windows Vista before using XPS driver.
	IPDS	-300dpi (1bit) -600dpi (1bit)	
Network / Operating Systems		Windows XP/ Vista/ 7 /Server 2003 / Server 2008 / Server 2008R2 NetWare: 6.5* Unix: Sun Solaris, HP-UX, SCO Open Server, Red Hat Linux, IBM AIX Mac OS X v.10.2 or later SAP R/3, NDPS Gateway, IBM iSeries, AS/400-using OS/400 Host Print Transform	* NetWare option required

Supported Environment

OS	Type	PCL5e	PCL6	PostScript3	XPS
Windows 2000	Professional	N	N	N	N
	Server	N	N	N	N
	Advanced Server	N	N	N	N
	Datacenter Server	N	N	N	N
Windows XP	Professional	Y	Y*1	Y *1	N
	Home Edition	Y	Y*1	Y *1	N
Windows Vista	Starter	N	N	N	N
	Home Basic	Y	Y*2	Y*2	Y*2
	Home Premium	Y	Y*2	Y*2	Y*2
	Business	Y	Y*2	Y*2	Y*2
	Ultimate	Y	Y*2	Y*2	Y*2
	Enterprise	Y	Y*2	Y*2	Y*2
Windows 7	Starter	N	N	N	N
	Home Basic	N	N	N	N
	Home Premium	Y	Y	Y	Y
	Professional	Y	Y	Y	Y
	Ultimate	Y	Y	Y	Y
	Enterprise	Y	Y	Y	Y
Windows 8	Windows 8	Y	Y	Y	Y
	Pro	Y	Y	Y	Y
	Enterprise	Y	Y	Y	Y
	RT	N	N	N	N
Windows Server 2003	Standard Edition	Y	Y*3	Y *3	N
	Enterprise Edition	Y	Y*3	Y *3	N
	Datacenter Edition	N	N	N	N
	Web Edition	N	N	N	N
Windows Server 2003R2	Standard Edition	Y	Y*3	Y *3	N
	Enterprise Edition	Y	Y*3	Y *3	N
	Datacenter Edition	N	N	N	N
Windows Server 2008	Standard Edition	Y	Y	Y	Y
	Enterprise Edition	Y	Y	Y	Y
	Datacenter Edition	N	N	N	N
	Web Edition	N	N	N	N
Windows Server 2008R2	Standard Edition	Y	Y	Y	Y
	Enterprise Edition	Y	Y	Y	Y
	Datacenter Edition	N	N	N	N
	Web Server	N	N	N	N
Windows Server 2012	Foundation	Y	Y	Y	Y
	Essentials	Y	Y	Y	Y
	Standard	Y	Y	Y	Y
	Datacenter	N	N	N	N

*1) SP3 or later (Windows XP Professional x64 Edition recommended to *3)
*2) SP1 or later is recommended
*3) SP2 or later is recommended

Point & Print

Window OS		Drivers			
Server	Client (Push to)	PCL5e	PCL6	PS	XPS
Windows Server 2003/2003R2	7	Y	Y	Y	N
	8	Y	Y	Y	N
	Vista	Y	Y	Y	N
	XP	Y	Y	Y	N
	W2K Pro	N	N	N	N
Windows Server 2008	7	Y	Y	Y	Y
	8	Y	Y	Y	Y
	Vista	Y	Y	Y	Y
	XP	Y	Y	Y	N
	W2K Pro	N	N	N	N
Windows Server 2008R2	7	Y	Y	Y	Y
	8	Y	Y	Y	Y
	Vista	Y	Y	Y	Y
	XP	Y	Y	Y	N
	W2K Pro	N	N	N	N
Windows 2000 Professional, Server & Advanced Server	7	N	N	N	N
	8	N	N	N	N
	Vista	N	N	N	N
	XP	N	N	N	N
	W2K Pro	N	N	N	N
Windows XP Professional	7	Y	Y	Y	N
	8	Y	Y	Y	N
	Vista	Y	Y	Y	N
	XP	Y	Y	Y	N
	W2K Pro	N	N	N	N
Windows Vista	7	Y	Y	Y	Y
	8	Y	Y	Y	Y
	Vista	Y	Y	Y	Y
	XP	Y	Y	Y	N
	W2K Pro	N	N	N	N
Windows 7	7	Y	Y	Y	Y
	8	Y	Y	Y	Y
	Vista	Y	Y	Y	Y
	XP	Y	Y	Y	N
	W2K Pro	N	N	N	N
Windows 8	7	Y	Y	Y	Y
	8	Y	Y	Y	Y
	Vista	Y	Y	Y	Y
	XP	Y	Y	Y	N
	W2K Pro	N	N	N	N
Windows Server 2012	7	Y	Y	Y	Y
	8	Y	Y	Y	Y
	Vista	Y	Y	Y	Y
	XP	Y	Y	Y	N
	W2K Pro	N	N	N	N

Terminal Service and Citrix Meta Frame

Server	Driver		
	PCL5e	PCL6	PS
Windows Server 2008R2	Y	Y	Y
Windows Server 2008	Y	Y	Y
Windows Server 2003	Y	Y	Y
Win Server 2003 R2	Y	Y	Y
Win Server 2012	Y	Y	Y
Win 2000 Server	N	N	N
Win Server 2003 + Meta Frame	N	N	N
Win 2000 Server + Meta Frame	N	N	N
Win Server 2003 + Citrix PresentationServer4.0	N	N	N
Win 2000 Server + Citrix PresentationServer4.0	N	N	N
Win Server 2003 + Citrix PresentationServer4.5	Y	Y	Y
Win Server 2008 + XenApp5.0	Y	Y	Y
Win Server 2008R2 + XenApp6.0	Y	Y	Y
Win Server 2008R2 + XenApp6.5	Y	Y	Y

*XPS driver is not supported in the environment of terminal service and Citrix MetaFrame.
*Even "Yes" is put in the cell, there is a case driver is not supported under the combination of FR and Service Pack of Meta Frame.

[Operating Environments]
The following combinations of operating system and Citrix MetaFrame are supported:

[Windows 2003 Server]
1. Windows Terminal Service (RDP protocol)
2. Citrix PresentationServer4.5

[Windows 2008 Server]
1. Windows Terminal Service (RDP protocol)
2. Citrix XenApp5.0

[Windows 2008R2 Server]
1. Windows Terminal Service (RDP protocol)
2. Citrix XenApp6.0
3. Citrix XenApp6.5

[Windows 2012 Server]
1. Windows Terminal Service (RDP protocol)

Mac OS Environment

	PostScript3	Printer Utility for Mac
Mac OS 8.6 or later, Mac OS X classic	N	N
Mac OS X Native: v.10.5 or later	Y	N

UNIX Environment

Supported platforms for Unix Filter

Unix Platforms	Version
Sun Solaris	9 /10
HP-UX	11.x /11i v2 /11i v3
Red Hat Linux	Enterprise V4, V5, V6
SCO Open Server	5.0.7/6.0
IBM AIX	5L Version 5.3/V6.1/V7.1

Novell NetWare

NetWare Server	Supported Version	NetWare 6.5 or later
	Client OS	Windows XP professional/Vista/2003/2008/7/8/2012

SAP R/3 Environment (Device Type/Barcode & OCR Package)

Supported environments	R/3 version	3.x/4.x/6.x/7.x, mySAP ERP2004 or later, SAP Enterprise
	Platform	Independent
	PDL	PCL5e
	Character Set	Latin 1(Western European), Latin 2 (Eastern European) Unicode
	Localization	English only
Supported features	i.e: Input/Output Bin, Duplex, Stapling, Punching, Resolution, Collation, EconoMode / TonerSaving, Smoothing, Page Protect, Auto Tray Change/Opt Tray select	
Supported Barcode & OCR Fonts* (* BOP will be procured locally.)	Barcode Fonts (Support Latin 1 only)	Code 128, Code 39, Code 93, Codabar, 2 of 5 interleaved/Industrial/Matrix, MSI, USPS, UPC/EAN
	OCR Fonts	OCR A, OCR B

Printer Driver Specification

Features	PCL5e	PCL6	PostScript3		XPS
			Windows XP/Vista/7	Mac OS X 10.5 or Later	
Send to Job Binding	N	N	N	N	N
Send to Document Server	Y	Y	Y	Y	Y
Sample Print	Y	Y	Y	Y	Y
Locked Print	Y	Y	Y	Y	Y
Hold Print	Y	Y	Y	Y	Y
Scheduled Print	N	Y	Y	Y	N
Stored Print	Y	Y	Y	Y	Y
Stored Print (Shared)	Y	Y	N	N	N
Store and Print	Y	Y	Y	Y	Y
Store and Print (Shared)	Y	Y	N	N	N
Reduce/Enlarge (Zoom/Scaling)	Y*1	Y	Y	Y	Y
Reduce/Enlarge Centering	N	Y*1	N	N	N
Fit to Paper size	Y	Y	Y	Y	N
Unauthorized Copy Control	N	Y	Y	Y	N

Features	PCL5e	PCL6	PostScript3		XPS
			Windows XP/Vista/7	Mac OS X 10.5 or Later	
Layout (N-up, Page per Sheet)	Y	Y	Y	Y	Y
Poster	N	Y	N	N	N
Duplex	Y	Y	Y	Y	Y
Booklet1	N	N	N	N	N
Booklet2 (Magazine)	Y	Y	Y	Y	Y
Non-Reduction Booklet	Y	N	N	N	N
Layout + Booklet	N	Y	Y	Y	N
Watermark	Y	Y	Y	Y	N
Overlay	N	N	N	N	N
Header/Footer	N	N	N	N	N
Adjust image position	N	N	N	N	N
Binding Margins	N	N	N	N	N
Collate	Y	Y	Y	Y	Y
Punch	Y	Y	Y	Y	Y
Staple	Y	Y	Y	Y	Y
Cover sheet(Front Cover)	Y	Y	N	N	N
Front and Back Cover	Y	Y	N	N	N
Slip Sheet	Y	Y	N	N	Y
Chaptering	Y	Y	N	N	N
Banner Page Print	Y	Y	Y	Y	N
Chaptering	Y	Y	N	N	N
Rotate by 180 degrees	Y	Y	Y	Y	Y
Reverse Order Print	N	Y	Y	Y	Y
Do not print Blank pages	Y*2	N	N	N	N
Dithering	N	N	Y	Y	N
Toner Saving	Y	Y	Y	Y	Y
Black Over Print	N	N	N	N	N
Gray Reproduction	N	N	N	N	N
CLP Color Reproduction	N	N	N	N	N
POP Display	N	N	N	N	N
Print Priority Setting : Quality	N	Y	N	N	N
Print Priority Setting : Speed	N	Y	N	N	N
Print Priority Setting : High Speed	N	N	N	N	N
User ID	Y	Y	Y	Y	Y
User Code	Y	Y	Y	Y	Y
User Authentication	Y	Y	N	N	N
Encryption/Encoding	Y	Y	N	N	N
Mirror Image Print	N	N	Y	N	N
Negative Image Print	N	N	Y	N	N
Edge to Edge Print	Y	Y	Y	Y	N
Limitation setting	Y	N	N	N	N
Classification Code	Y	Y	N	N	N

*1: "Centering" feature cannot be selected from PCL driver. However PCL has this feature as the original function. When printing with Reduce/Enlarge(Zoom) feature of PCL driver, the output will be automatically centered by the PCL's original centering fun
*2: This feature cannot be set from printer driver but is set "On" at "PCL setting" of MFP.

Genuine IPDS Option Specifications

Items	Descriptions
Option Media Type	SD Card
Supported IPDS Emulation	Native 4028
Supported IPDS Font	IBM Core Interchange IBM Coordinated 4028 Compatibility 3820 ROM Font Compatibility *Please refer to 1.2 Resident IPDS Font Support for supported IPDS Font Sets.
Supported Host Environment	OS/400 Version 5.4 or higher Graphical Data Display Manager (GDDM) Release 2.3 or higher Print Service Facility (PSF for z/OS) Release 4.1.0 or higher Print Service Facility (PSF/400) Release 5.4 or higher Infoprint Manager for AIX Release 4.2 or higher Infoprint Manager for Windows Release 2.2 or higher Infoprint Process Director for Linux Release 1.3.1 or higher Infoprint Process Director for AIX Release 1.3.1 or higher

Note: Printer Scanner Unit Type S1 is mandatory to enable IPDS capabilities for D179 Basic Model (95ppm), which is launched only in RAC region.

Resident IPDS Font Support Selectable Code Page

037 US, Canada, Netherlands, Portugal (Default)	500 Belgium, Switzerland / International
038 US English ASCII	870 Latin 2 Multilingual
260 Canadian French	871 Icelandic
273 Austrian / German	1140 US, Canada, Netherlands, Portugal ECECP
274 Belgium	1141 Austrian/German ECECP
276 Canadian French (94 character set)	1142 Danish/Norwegian ECECP
277 Danish / Norwegian	1143 Finnish/Swedish ECECP
278 Finnish / Swedish	1144 Italian ECECP
280 Italian	1145 Castillian/Latin American Spanish ECECP
281 Japanese	1146 UK English ECECP
284 Spanish	1147 Catalan French ECECP
285 UK English	1148 Multinational ECECP
286 Austrian / German (alternate)	1149 Icelandic ECECP
287 Danish / Norwegian (Alternate)	875 Greek
288 Finnish / Swedish (Alternate)	880 Cyrillic
290 Japanese / Katakana	892 OCR – A
297 French	893 OCR – B
420 Arabic	905 Turkish
423 Greek	1025 Cyrillic (primary)
424 Hebrew	1026 Turkish (primary)

New Features

Scanner Feature
General Specifications

Items		Specifications	Remarks
Color Scan		Standard	
Scanning Speed (single pass duplex DF)	B&W	120 (simplex) / 220(duplex) (A4/LET LEF/ 200dpi/300dpi-1bit)	
	Color	120 (simplex) / 220(duplex) (A4/LET LEF/ 200dpi-4bit / 300dpi-4bit)	
Scanning Resolution	Std	100 / 150 / 200 / 300 / 400 / 600dpi	200dpi as a default
Auto Size Detection (US model)	Contact Glass	11"x17"(DLT) SEF, 8.5"x14"(LG) SEF, 8.5"x11"(LT) LEF/SEF, 8.5"×5.5"(HLT) LEF, *SP mode adjustment is required : 8.5"×5.5"(HLT)SEF	
	ARDF	11"x17" (DLT)SEF, 8.5"x14" (LG)SEF, 8.5"x11"(LT) LEF/SEF, 5.5"x8.5"(HLT) LEF/SEF, 8.5"×13"(Foolscap) SEF 10"x14"SEF, 11"x15"SEF (detected the same as DLT SEF, Default = DLT SEF), 8"x10"SEF (detected the same as LT SEF, Default = LT SEF) 7.25"x10.5"(EXE) LEF/SEF	
Auto Size Detection (EU/AP/CHN Model)	Contact Glass	A3 SEF, B4 SEF, A4 LEF/SEF, B5 LEF/SEF, A5 LEF, 8.5"x13"(F) SEF, *SP mode adjustment is required : A5 SEF, 8"x13"(F) SEF, 8.25"x13"(Folio) SEF, 8K SEF, 16K LEF/SEF	
	ARDF	11"x17" (DLT)SEF, 8.5"x14" (LG)SEF, 8.5"x11"(LT) LEF/SEF, 5.5"x8.5"(HLT) LEF/SEF, 8.5"×13"(Foolscap) SEF 10"x14"SEF, 11"x15"SEF (detected the same as DLT SEF, Default = DLT SEF), 8"x10"SEF (detected the same as LT SEF, Default = LT SEF) 7.25"x10.5"(EXE) LEF/SEF	
Scan Area	Main Scan	297mm / 11.69 inch	
	Sub Scan	432mm / 17 inch	
sRGB Support		RGB (equivalent to sRGB)	
Network Interface		Ethernet (1000Base-T*/100Base-TX/10Base-T)	Ethernet 1000Base-T in on boarded but needs to be selected by user.
		USB2.0 Type A	
		SD card slot	Scan to USB/SD Card is available.
		Wireless LAN (IEEE802.11a/b/g/n)	Option

Scan to Email

Items		Specification
Requirement		SMTP (Mail Server) Gateway and POP, IMAP4
Authentication		SMTP authentication POP before SMTP authentication
Resolution		Default: 200 dpi 100 / 150 / 200 / 300 / 400 / 600 dpi
Register E-mail Address in HDD		Max. 2,000 addresses
Register Group Address in HDD		Max. 100 Group (Max. 500 addresses in one group address)
Maintain E-mail Address in HDD		Direct input on operation panel, Web Image Monitor, Smart Device Monitor for Admin
Input of Destination E-mail Address via Soft Key		Possible, Max. 100 destinations per job
Search E-mail Address in HDD		By name & E-mail address
LDAP Search		Yes
Max Address Number per Send		Max. 500 addresses
Address Number per send	from HDD	Max. 500 addresses
	Direct Input	Max. 100 addresses
	via LDAP	Max. 100 addresses
Simultaneous Transmission		Max.550
Attention		To, cc, bcc
Subject	Manual Input	Max. 128 characters via soft key
	User Pre-register	22 subjects. Max. 20 Characters per a subject
Body Message	Manual Input	Max 80 Characters, 5 lines
	Pre-register by user	Title name of the body message: Max. 20 characters per a name
	Preset	Message: "This e-mail included attached file sent from xxxx (machine model name)."
Input File Name		Yes
E-mail Size Restriction	With restriction	128~102,400KB
	W/O restriction	725MB
File Type		Single Page TIFF/JPEG/PDF/PDF-A/High Compression PDF Multi Page TIFF/PDF/PDF-A/High Compression PDF
Program User Setting		Yes (Up to 25 programs)
Divided & Send E-mail (If the file size exceeds the max size.)		Yes (By page or size) / No, Default = Yes(By size) * *If the sent file size exceeded the maximum E-mail size, it would be divided to multiple sending. In addition, the sent files might not be accepted by the receiving side due to the limitation in the receiving capacity at the receiver SMTP server or E-mail software setting.
Resend		Yes / No, Default = Yes

Scan to Folder

Items	Specification
Protocol Support	SMB, FTP, NCP* *Optional
Security	Client folder log-in (log-in name and password), Encryption of log-in name and password during transmission
Resolution	Default: 200dpi 100, 150, 200, 300, 400, 600dpi
Register client folder address in HDD	Max. 2,000 folders
Maintain Client Folder Address in HDD	Direct input on operation panel, Web Image Monitor, Smart Device Monitor
Direct addressing of destination client folder via soft key	Yes
Search client folder	SMB: Browsing directly to the designated folders FTP: By client folder name NCP: Browsing* *Optional
Home folder over LDAP	Yes
Max. Client Folders per send	Max. 50 client folders / PCs per send
Simultaneous Transmission	Max.550
Group Address	Max. 500 destinations (Folder destination must be less than 50) e.g. 500 destinations (50 folders included) >OK 500 destinations (51 folders included) >Failure
Input File Name	Yes
Scan file size	1 document Up to 2000MB
File size when combined Scan to Folder & Scan to E-mail	128-102,400KB, Default = 2,048KB (With restriction) 725MB (W/O restriction) (Scan to E-mail file size applied)
File Type	Single Page TIFF/JPEG/PDF/PDF-A/High Compression PDF Multi Page TIFF/PDF/PDF-A/High Compression PDF
Program Registration	Yes (Up to 25 programs)
Resend	Yes / No, Default = Yes

Network Twain Driver

Items		Specification
Correspondence OS		32bit/64bit: Windows XP, Vista, 7, Server2003/2008 64bit: Windows Server 2008R2 (Operates in 32-bit compatibility mode on 64-bit operating systems)
Resolution	B&W	100 – 1200dpi (Black and White / Grayscale)
	Color	100 – 1200dpi (Full Color)
Scan Mode		Standard / Photo / OCR / Filing
Image Adjustment		Brightness / Contrast / Threshold /Gamma Adjustment / Halftone Pattern
Endorser		Supported
Stamp		Date / Page Number / Text
Read-Ahead Mode		Supported

WIA Driver

Items	Specification
Correspondence OS	32 bit/64 bit: Windows Vista (SP1 or Later), 7, Windows Server 2008, 8 64 bit: Windows Server 2008R2, Windows Server 2012
Resolution	100 – 1200dpi by 1dpi step
Scan Mode	Not Supported
Image Adjustment	Brightness / Contrast
Endorser	Not Supported
Stamp	Not Supported
Read-Ahead Mode	Supported (Fixed: Not selectable)

Document Server Specification

Items	Specifications	Remarks
HDD Capacity	186GB	Shared with other application programs
Max Stored Documents	- Standard Copy: 5,000 Printer: 20,000 Document Server:15,000 Other: 2,000 - Expansion Pattern A Copy: 5,000 Printer: 20,000 Document Server: 20,000 Other: 2,000 - Expansion Pattern B Copy: 2,000 Printer: 2,000 Document Server: 2,000 Other: 2,000	
Max Pages Per Documents	1,000	
Max Pages of All Stored Documents	- Standard 15,000 - Expansion Pattern A 30,000 - Expansion Pattern B 50,000	
Storage Period	1-180 days, or "no limit"	

Security Document Server Specification

Items	Specifications	Remarks
Network User Authentication	Yes	
IP Address Filtering	Yes	
MAC Address Filtering	No	
HDD Overwrite	Yes (std)	
HDD Encryption	Yes (std)	
Copy Guard Security	Yes	
Secure Print	Yes	
Encrypted Secure Print	Yes	
Encrypted PDF Mode	Yes	
Digitally signed PDF	Yes	
IP Sec	Yes	
Secure Sockets Layer(SSL)	Yes	
SNMPv3	Yes	
SMTP over SSL	Yes	
IPv6	Yes	
Transport Layer Security	Yes	
Security for IEEE 802.11i,w	Yes	
Removable HDD	No	

Peripherals Specification
ADF Specification (Standard)

Item		Specification	Remarks
Type		One-pass color duplex sheet-through scanner	
Dimensions (W x D x H)		591 x 520 x 175mm (23.26x20.47x6.88 inches)	
Weight		Less than 14.0 kg (30.86 pounds)	
Power Source		From mainframe	
Noise (Power level)		TBA	
Stack capacity		220 sheets or less than 27mm (1.06")	80g/m², 20# Bond
Original size	Simplex	B5-A3 (SEF), 5.5"x8.5"~11"x17" (SEF) <Custom Size Paper> Width: 128~297mm (5.03~11.69 inch) Length: 128~432mm (5.03~17.00 inch) Banner Page: Not supported	
	Duplex	B5-A3 (SEF), 5.5"x8.5" – 11"x17" (SEF) <Custom Size Paper> Width: 128~297mm (5.03~11.69 inch) Length: 128~432mm (5.03~17.00 inch)	
Original Weight	Simplex	40~128 g/m² 11~34# Bond	
	Duplex	52~128 g/m² 14~34# Bond	
Original set position		Left-rear corner	
Original Feed		ADF, SADF mode	
Original Set		Face Up, First sheet on top	
Double Feed Detection		Yes (Ultrasonic Sensor Type)	
Special Original Setting		Batch, Mixed Size	

A4/LT Large Capacity Tray (RT5070)

Item	Specification
Dimensions (W x D x H)	540 x 730 x 1000 mm (21.25 x 28.74 x 39.36 inches)
Weight	Less than 106 kg (233.68 pounds)
Configuration	Console Type
Power source	From mainframe
Noise (Power level)	TBA
Paper size	A4 LEF, B5 LEF, A5 SEF 8.5"x11" LEF, 5.5"x8.5" SEF <Over Size Paper> 305.0x230mm (12"x9.05") Need to set by corresponding SP mode
Paper weight	4th tray: 52.3~216.0g/m² 14# Bond~80# Cover 5th tray: 52.3~216.0g/m² 14# Bond~80# Cover 6th tray: 52.3~163.0g/m² 14# Bond~90# Index
Paper capacity	4th tray: 1,100 sheets 5th tray: 1,100 sheets 6th tray: 2,800 sheets In case paper less than 0.1mm thick (Based on 20# Bond)
Air Assist Paper Pickup	No
Tray Security Lock	Yes (all tray) *1

*1: Recommended Lock Type
The following lock is recommended. Please procure it locally.

Multi Bypass Tray (BY5010)

Item	Specification	Notes
Paper Capacity	550 sheets (80g/m², 20# Bond)	
Paper Size	A5 (LEF)/5.5"x8.5" (LEF) – 13" x 19.2" <Custom Size Paper> Width: 100.0~330.2mm (3.94~13.00 inch) Length: 139.7~487.7mm (5.50~19.20 inch)	
Paper Weight	52.3～216g/m², 14# Bond to 80# Cover	
Power Source	From LCT (From Mainframe→LCT)	
Paper Volume Sensors	In 4 steps: Near end, 0%, 50%, 100%	
Dimension (W x D x H)	690mm x 561mm x 210mm (27.16 x 22.08 x 8.26 inches)	
Weight	Less than 20kg (44 pounds)	

A3/DLT Large Capacity Tray (RT5080)

Item	Specification
Dimensions (W x D x H)	865 x 730 x 1000 mm (34.05 x 28.74 x 39.36 inches)
Weight	Less than 185 kg (407.85 pounds)
Configuration	Console Type
Power source	From mainframe
Noise (Power level)	Not available at product launch
Paper size	A5 (LEF)/5.5"x8.5" (LEF) – 13" x 19.2"(SEF) <Custom Size Paper> Width: 100.0~330.2mm (3.94~13.00 inch) Length: 139.7~487.7mm (5.50~19.20 inch) Note: Paper narrower than 139.2mm needs the attachment
Paper weight	40~300g/m² 11# Bond~110# Cover
Paper capacity	4th tray: 1,100 sheets 5th tray: 2,200 sheets 6th tray: 1,100 sheets *In case paper less than 0.1mm thick
Paper weight	4th tray: 52~256 g/m² 14# Bond~95# Cover 5th tray: 40~300 g/m² 11# Bond~110# Cover 6th tray: 52~256 g/m² 14# Bond~95# Cover
Air Assist Paper Pickup	Yes (all tray)
Tray Security Lock	Yes (all tray) *1
Active Tray LED	Yes

*1: Recommended Lock Type
The following lock is recommended. Please procure it locally.

3,000 SHEETS FINISHER WITH 100 SHEETS STAPLER (SR5050)

Basic Specifications

Item		Specification	
Dimensions (W x D x H)		996 x 730 x 1126mm (39.21 x 28.74 x 44.33 inches) *Not includes projections. When all extendable trays are closed.	
Weight		Less than 112kg (246.91 pounds)	
Configuration		Console type	
Power Source		NA: 120-240V Plug Type: NEMA 5-15	
Power Consumption		Less than 150W (Excluding peak consumption)	
Output Jogger		Standard	
Staple Position Adjustment		Yes (Two position staple only)	
Proof Tray	Stack capacity	250 sheets Without folding (A4, 8.5”x11” or smaller) 50 sheets Without folding (B4, 8.5”x14” or larger) 30 sheets Z folding (B4 or larger) 20 sheets Z folding (A4SEF, LTSEF)	80g/m², 20#.Bond
	Paper size	A5~13” x 19.2”	
	Paper weight	<Without Z-folding> 52~216g/m² 16~40# Bond, 50~80# Cover, 90~110# Index <Z-folding> 64~105g/m², 20# Bond	
Shift Tray	Stack capacity	3,000 sheets (A4 LEF, B5 LEF, 8.5”x11” LEF) 1,500 sheets (A3, A4 SEF, B4, B5 SEF, 11”x17” SEF, 8.5“x11” SEF, SRA4, 226x310mm 1,000 sheets (12”x18”, SRA3, 13”x18”, 12.6”x18.5”, 12.6”x19.2”, 13”x19”, 13”x19.2”, 310x432mm) 500 sheets (A5 LEF, 5.5”x8.5” LEF) 100 sheet (A5 SEF, 5.5”x8.5” SEF) 30 sheets (Z-folding paper)	
	Paper size	<Without Z-folding> Max Up to 330.2x487.7mm (13”x19.2”) <Z-folding> up to 12”x18”	
	Paper weight	<Without Z-folding> 40-400g/m² Over 300g/m² thick is not supported <Z-folding> 64~105g/m², 18~28# Bond	

Remarks: The capacity to be calculated with 80g/m², 20# Bond paper.

Staple Specifications

Item		Specification
Paper size		B5~A3 8.5”x11”~11”x17”
Paper weight		<Without Z-folding> 64~80g/m² (17~22#.Bond) <Z-folding> 64~105g/m² (17~28# Bond)
Staple position		Top, Bottom, 2 Staples, Top-slant
Staples Capacity*	A4, B5, 8.5”x11”	2~100 sheets
	A3, B4 11”x17”, 8.5”x14”	2~50 sheets
	Z-folding	10 sheets
Staple Replenishment		Cartridge exchange / 5,000 pins per cartridge

Remarks: The capacity to be calculated with 80g/m², 20# Bond paper.

Punch Specifications (Option)

	Specification	Remarks
Number of Punch	NA: 2 or 3 holes	Punch option is required.
Punch Registration	Yes (Resist Roller and Side Registration Sensor)	
Max. Thickness	2 or 3 holes: 52~209g/m² 4 holes: 52~163g/m²	
Supported model	Type a (95ppm) Type b (110ppm) Type c (135ppm)	
Performance	Same as engine speed (95/110/135ppm)	

Stack Capacity After Finishing

	Paper size	# of Pages per set	# of Sets
Without Z-folding	A4 LEF, B5 LEF 8.5”x11” LEF	20~100	150~30
		10~19	200~105
		2~9	150
	A4 SEF, B5 SEF 8.5”x11” SEF	10~100	150~15
		2~9	150
	A3, B4 11”x17”, 8.5”x14”	10~50	150~30
		2~9	150
When mix-sized	A3 & A4, B4 & B5 11”x17 & 11”x8.5”	2~50	30
With Z-folding (One size or mix-sized)	One size A3 Z-folding & A4 B4 Z-folding & B5 11”x17” Z-folding + 11”x8.5”	1~10	30~3

Booklet Finisher (SR5060)
Basic Specifications

Item		Specification	
Dimensions (W x D x H)		996 x 730 x 1126mm (39.21 x 28.74 x 44.33 inches) *Not includes projections. When all extendable trays are closed.	
Weight		Less than 112kg (246.91 pounds)	
Configuration		Console type	
Power Source		NA: 120-240V Plug Type: NEMA 5-15	
Power Consumption		Less than 150W (Excluding peak consumption)	
Output Jogger		Standard	
Staple Position Adjustment		Yes (Two position staple only)	
Proof Tray	Stack capacity	250 sheets Without folding (A4, 8.5”x11 or smaller) 50 sheets Without folding (B4, 8.5”x14” or larger) 30 sheets Z folding (B4 or larger) 20 sheets Z folding (A4SEF, LTSEF)	80g/m², 20#.Bond
	Paper size	A5~13”x19.2”	
	Paper weight	<Without Z-folding> 52~216g/m² 16~40# Bond, 50~80# Cover, 90~110# Index <Z-folding> 64~105g/m², 20# Bond	
Shift Tray	Stack capacity	2,500 sheets (A4 LEF, B5 LEF, 8.5”x11 LEF) 1,500 sheets (A3, A4 SEF, B4, B5 SEF, 11”x17” SEF, 8.5“x11” SEF, SRA4, 226x310mm) 1,000 sheets (12”x18”, SRA3, 13”x18”, 12.6”x18.5”, 12.6”x19.2”, 13”x19”, 13”x19.2”, 310x432mm) 500 sheets (A5 LEF, 5.5”x8.5” LEF) 100 sheet (A5 SEF, 5.5”x8.5” SEF) 30 sheets (Z-folding paper)	
	Paper size	<Without Z-folding> Max Up to 330.2x487.7 mm (13”x19.2”) <Z-folding> up to 12”x18”	
	Paper weight	<Without Z-folding> 40~400g/m²* *The D179/D180/D181 does not support over 300 g/m² thick <Z-folding 64~105 g/m², 18~28# Bond	

Remarks: The capacity to be calculated with 80g/m², 20# Bond paper.

Staple Specifications

Item		Specification
Paper size		B5~A3 8.5”x11”~11”x17”
Paper weight		<Without Z-folding> 64~80g/m² (17~22# Bond) <Z-folding> 64~105 g/m² (17~28# Bond)
Staple position		Top, Bottom, 2 Staples, Top-slant
Staples Capacity*	A4, B5, 8.5”x11”	2~100 sheets
	A3, B4 11”x17”, 8.5”x14”	2~50 sheets
	Z-folding	10 sheets
Staple Replenishment		Cartridge exchange / 5,000 pins per cartridge

Remarks: The capacity to be calculated with 80g/m², 20# Bond paper

Saddle Stitch Specifications

Item		Specification
Paper size		B5~SRA3 8.5”x11”~13”x19.2” <Custom Size> Length: 257~487.7mm (320~19.20 inch) Width: 182~330.2mm (7.16~12.99 inch)
Paper weight		64~90g/m² (18~24#.Bond)
Staple position		Center 2 position
Staples Capacity*	64~80g/m² (18~20# Bond)	20 sheets
	80~90g/m² (20~24# Bond)	15 sheets
Staple Replenishment		Cartridge exchange / 5,000 pins per cartridge

Punch Specifications (Option)

	Specification	Remarks
Number of Punch	NA: 2 or 3 holes	Punch option is required.
Punch Registration	Yes (Resist Roller and Side Registration Sensor)	
Max. Thickness	2 or 3 holes: 52~209g/m² 4 holes: 52~163g/m²	
Supported model	D179 (95ppm) D180 (110ppm) D181 (135ppm)	
Performance	Same as engine speed (95/110/135ppm)	

Stack Capacity After Finishing

	Paper size	# of Pages per set	# of Sets
Without Z-folding	A4 LEF, B5 LEF 8.5”x11” LEF	20~100	125~25
		10~19	200~105
		2~9	150
	A4 SEF, B5 SEF 8.5”x11” SEF	10~100	150~15
		2~9	150
	A3, B4 11”x17”, 8.5”x14”	10~50	150~30
		2~9	150
When mix-sized	A3 & A4, B4 & B5 11”x17 & 11”x8.5”	2~50	30
With Z-folding (One size or mix-sized)	One size A3 Z-folding & A4 B4 Z-folding & B5 11”x17” Z-folding + 11”x8.5”	1~10	30~3
When Saddle Stitch	All size	2~5	45
		6~10	23
		11~15	15
		16~20	10
	Limitless stack mode	Supported	

Booklet Trimmer (TR5040)

Item	Specification	Notes
Dimension (W x D x H)	1115 x 591 x 555mm (43.89 x 23.26 x 21.85 inches)	
Weight	75kg (165.34 pounds)	
Configuration	Console type / Optional unit for Finisher	SR5060 is necessary
Power consumption	Universal Power Supply 100V – 240V NA: 50/60Hz Plug Type: NEMA 5-15	
Trimming Type	One side edge	
Trimming Capacity	1~20 sheets (2~40 pages after folding)	20#, 80g/m²
Paper Size	13”x19.2”, 13”x19”, 12.6”x19.2”, 12.6”x18.5” 13”x18”, SRA3 (320 x 450mm), 12”x18”, A3, B4 SRA4 (320x225mm), 226x310mm, 310x432mm, A4, B5, DLT, LG, LT <Custom Size> Width: 182~330mm (7.16~12.99 inch) Length: 257~488mm (10.11~19.21 inch)	*sizes before folding
Stack Capacity	1 sheet: 60 sets*1 2~5 sheets: 60 sets 6~10 sheets: 35~40 sets*1 11~20 sheets: 20~25 sets*1	
Stacker Full Detection	Yes	
Limitless Stack	Yes*2	

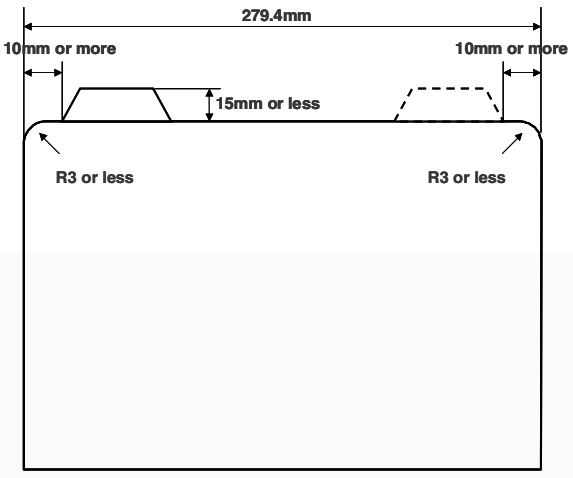
*1: The stack capacity varies according to the size of the sheets.
*2: Note: Hardware modification by service engineer is necessary. Not applicable by end-user.

Ring Binder (RB5020)

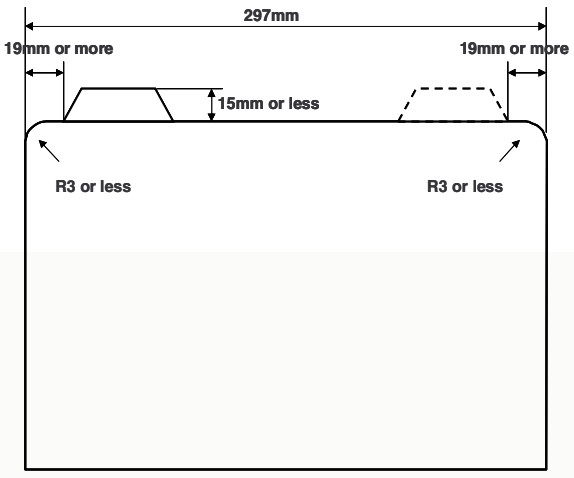
Item			Specification	
Dimensions (W x D x H)			870 x 730 x 1010mm (34.25 x 28.74 x 39.76 inches)	
Weight			Less than 140kg (308.64 pounds)	
Configuration			Console type	
Power consumption			Less than 400W	
Power Supply			100-240V, 50/60Hz	
Paper size	Binding mode		A4_LEF, 8.5”x11”_LEF	
	Punching mode		A4_LEF, 8.5”x11”_LEF	
Paper weight	Binding mode		64~216 g/m² 20~40# Bond, 90~110# Index, 50~80# Cover	
	Punching mode		64~216 g/m² 20~40# Bond, 90~110# Index, 50~80# Cover	
Capacity of ring bind			2~100 sheets	
Number of holes	8.5”x11”		21 holes	
	A4		23 holes	
Ring Supply	Type	NA	1) 8.5”x11”, Black, 50 sheets 2) 8.5”x11”, Black, 100 sheets 3) 8.5”x11”, White, 50 sheets 4) 8.5”x11”, White, 100 sheets	
		EU	1) A4, Black, 50 sheets 2) A4, Black, 100 sheets 3) A4, White, 50 sheets 4) A4, White, 100 sheets	
	Replenishment		Cartridge exchange	*80 sets/cartridge
TAB Stock			Supported*1	*See the below drawings
Stack capacity	Binding mode		11 sets	*100 sheets /set
	Punching mode		100 sheets (200 pages in DPX)	

*1: Please refer the following regarding supported TAB stock dimension.

Letter Size



A4 Size



Cover Interposer Tray (CI5030)

Item	Specification	Notes
Dimension (W x D x H)	540 x 730 x 1290mm (21.25 x 28.74 x 50.78 inches)	
Weight	Less than 45kg (99.20 pounds)	
Power Source	From mainframe	
Noise (Power level)	TBA	
Paper Size	A5/HLT~13"x19.2" <Custom Size Paper> Width: 139.7~330.2mm (5.50~13.00 inch) Length: 139.7~487.7mm (5.50~19.20 inch)	
Paper weight	64~216g/m² 17~58# Bond~110# index	
Paper capacity	200 sheets x 2 trays	20#, 80g/m²
Original set position	Center position	
Original Set	Face Up, First sheet on top	
Size change	Touch screen	User changeable

Perfect Binder (GB5010)

Item		Specification	
(W x D x H)		1090 x 791 x 1,387mm (42.91 x 31.14 x 54.60 inches)	
Weight		Less than 350kg (771.61 pounds)	
Configuration		Console type	
Power consumption		Less than 623W	
Power Supply		DC24V (supplied from host machine via Perfect Binder)	
Cutting directions		3 edges, 1 edges, None	
Booklet size		Width: 201~297mm (7.91~11.69 inch) Length: 139.7~216mm (5.49~8.50 inch)	
Booklet thickness		Less than 23mm (0.90 inch)	
Body pages	Paper weight	64~163g/m², 20~40# Bond, 90# Index, 50~60# Cover *106~163g/m² paper: Up to 10 sheets as chapter pages	
	Paper size	Width: 257~320mm (10.11~12.59 inch) Length: 182~228.6mm (7.16~8.99 inch)	
	Capacity	Max 200 sheets 64~80g/m²: 10~200 sheets (20~400 pages in DPX) 81~105g/m²: 10~150 sheets (20~300 pages in DPX)	
Cover pages	Paper weight	90~300 g/m², 24~40# Bond, 90~140# Index, 50~100# Cover	
	Paper size	Width: 257~330.2mm (10.11~12.59 inch) Length: 364~487.7mm (14.33~19.20 inch)	
Interposer tray	Capacity	200 sheets x 2 (90g/m²)	Total load must be under 24mm (0.94")
Trimming		Top/Bottom Edge: 6~28mm Fore Edge: 6~50mm	
Stack capacity	50 sheets/booklet	13 booklets	*80g/m² paper
	100 sheets/booklet	7 booklets	
	200 sheets/booklet	4 booklets	
Warm-up Time		Less than 380 seconds	
Glue Capacity		380g (13.4oz)	

Multi-Folding Unit (FD5020)

Item		Specification		Notes
Power Supply		NA: 120V, 50/60Hz		
Power Consumption		240W		
Dimension (W x D x H)		470 × 730 × 1000mm (18.50 x 28.74 x 39.36 inches)		
Weight		Less than 92kg (202.82 pounds)		
Folding Type	Single Sheet	Z-fold, Half fold/Print inside, Half fold/Print outside, Letter fold-in/Print inside, Letter fold-in/Print outside, Letter fold-out, Double Parallel/Print inside, Double Parallel/Print outside, Gate Fold/Print inside, Gate Fold/Print outside		
	Multiple Sheets	Up to 3 sheets Half fold/Print inside, Half fold/Print outside, Letter fold-in/Print inside, Letter fold-in/Print outside, Letter fold-out,		Coated paper is supported also.
Paper Size	Single Sheet Mode	<Z folding> B4, A4, A3, 8.5"×11", 8.5"x14", 11"×17″,12"×18”		*Multi-folding unit does not support custom paper size.
		<Half folding> B5, B4, A4, A3, 8.5"×11", 8.5"x14", 11"×17″, 12"×18", 12.6"x18.5", 12.6"x19.2", 13"x18", 13"x19",13"x19.2", 226x310mm, 310x432mm, SRA3, SRA4		
		<Letter folding in/out> B5, A4, 8.5"x11"		
		<Double parallel> B5, B4, A4, A3, 8.5"×11", 8.5"x14",11"×17″, 12"×18″		
		<Gate folding> B5, A4, 8.5"x11", 11"x17" 12"×18″		
	Multiple Sheet Mode	<Half folding> B5, B4, A4, A3, 8.5"×11", 8.5"x14", 11"×17″, 12"×18", 12.6"x18.5", 12.6"x19.2", 13"x18", 13"x19", 13"x19.2", 226x310mm, 310x432mm, SRA3, SRA4		
		<Letter folding in> B5, A4, 8.5"x11"		
		<Letter folding out> B5, A4, 8.5"x11"		

Item		Specification	Notes
Paper Weight	Single Sheet Mode	64~105g/m²	
	Multiple Sheet Mode	64~80g/m²	

Decurl Unit (DU5030)

Item		Specification	
Dimensions (W x D x H)		71x509x181mm (2.79 x 20.03 x 7.12 inches)	
Weight		Less than 5kg (11.02 pounds)	
Type		Internal Module to be installed in mainframe (Option)	
Power Consumption		Less than 30W	
Power Supply		From mainframe	
Paper Size		100x139.7mm~330.2x487.7mm 3.93"x5.49"~12.99"~19.20"	
Paper Weight		40~350g/m²	
Decurl Function	Pressure Adjustment	3 steps	From operation panel
	Curl Type	Back curl/Face curl	From operation panel

Environmental Specification
Sound Power Level

	Stand-by		Printing	
	Mainframe	Full System	Mainframe	Full System
Type a (95ppm)	61.5 dB(A)*1	70 dB(A)	74.5 dB(A)*2	80 dB(A)
Type b (110ppm)	66 dB(A)*1	70 dB(A)	76 dB(A)	80 dB(A)
Type c (135ppm)	73.5 dB(A)	77.5 dB(A)	78.5 dB(A)	82.5 dB(A)

*1: Under the condition over 35℃ in mainframe, sound power level is 72 dB(A).
*2: Under the condition over 35℃ in mainframe, sound power level is 76 dB(A).

Utility Software

Software	Description
For GW Controller Font Manager	This software enables you to use screen fonts.
Smart Device Monitor for Admin	This software enables you to manage and monitor printers and other devices over the network.
DeskTopBinder – SmartDeviceMonitor for Client	This software enables you to access networked printers to print, monitor or to receive notifications. With DeskTopBinder Lite you can connect client computers to I/O devices enabling you to efficiently manage data.
Printer Utility for Mac	This is a utility for Macintosh that provides access to several network printing administrative features.
PS Descriptions	PPD for Mac By interacting with the Adobe PostScript 3 controller in the device, this PPD is able to produce an accurate representation of the screen image.
Mac OS X PPD Installer	This PPD installer is used to install a PPD (Postscript Printer Description) file on Mac OSX. PPD files contain descriptions of printer capabilities such as paper sizes, number of input trays and duplexing. Once the PPD file is installed on the system using the PPD installer, the PS driver that comes bundled with Mac OS X can use the information in the PPD to control the print device and enable full functionality. It supports the Mac OS X 10.1 or later. Please see the Readme file for information about compatibility with versions of Mac OS X.
LAN FAX Driver M10	This software enables you to fax documents directly from your computer. The Address Book Editor and Cover Sheet Editor are installed as well. This software requires the optional fax unit to be installed on the machine. M10 Driver
RPCS Driver	Printer driver for Windows: It is optimized for the Windows GDI. High performance printing can be expected. Regularly used settings can be saved as a "one-click icon" in the driver interface. These settings can be reused easily by clicking the icon.
PCL 6 Driver	Printer driver for B/W printing in Windows. It supports HP PCL XL commands and is optimized for the Windows GDI. High performance printing can be expected.
PCL 5e Driver	Printer driver for printing in Windows. It supports HP PCL 5e commands.
Post Script Driver	By interacting with the Adobe PostScript 3 controller in the device, this driver is able to produce an accurate representation of the screen image.
GW Controller Network TWAIN Driver	TWAIN scanner driver for network connections with new features Combine/Series, compatible with SNMP V3and Network Connection Tool.

Product Support Guide
D179 / D180 / D181

Print Driver Information

Model	PCL 5e/6	RPCS	PostScript3				
			Windows 9x / Me	Windows NT4	Windows 2000/XP	Mac OS 8.6~9.2	Mac OSX
Send to Job Binding	N	Y	N	N	N	N	N
Send to Document Server	N	N	N	N	N	N	N
Sample Print	N	N	N	N	N	N	N
Locked Print	N	N	N	N	N	N	N
Hold Print	N	N	N	N	N	N	N
Stored Print	N	N	N	N	N	N	N
Stored Print (Shared)	N	N	N	N	N	N	N
Store and Print	N	N	N	N	N	N	N
Store and Print(Shared)	N	N	N	N	N	N	N
Reduce/Enlarge (Zoom/Scaling)	Y*2	Y	Y	Y	Y	Y	Y
Reduce/Enlarge Centering	N	Y	N	N	N	N	N
Fit to Paper size	Y	Y	Y	Y	Y	Y	Y
Unauthorized Copy	N	Y	N	N	N	N	N
Layout (N-up)	Y	Y	Y	Y	Y	Y	Y
Poster	N	Y	N	N	N	Y	N
Duplex	Y	Y	Y	Y	Y	Y	Y
Booklet1	N	Y	N	N	N	N	N
Booklet2 (Magazine)	Y	Y	N	N	Y	N	N
Non-Reduction Booklet	Y	Y	N	N	N	N	N
Watermark	Y	Y	Y	Y	Y	Y	Y
Overlay	N	Y	N	N	N	N	N
Header/Footer	N	Y	N	N	N	N	N
Adjust image position	N	Y	N	N	N	N	N
Binding Margins	N	Y	N	N	N	N	N
Collate	Y	Y	Y	Y	Y	Y	Y
Punch	N	N	N	N	N	N	N
Staple	Y	Y	Y	Y	Y	Y	Y
Z-Folding	N	N	N	N	N	N	N
Cover sheet(Front Cover)	N	N	N	N	N	Y	Y
Back Cover	N	N	N	N	N	N	N
Front and Back Cover	N	N	Y	N	N	N	N
Slip Sheet	N	N	N	N	N	N	N
Chaptering	N	N	N	N	N	N	N
Designated Sheet Print	N	N	N	N	N	N	N
Tab Shift Printing	N	N	N	N	N	N	N
Rotate by 180 degrees	Y	Y	Y	Y	Y	N	N
Reverse Order Print	N	Y	N	N	Y	Y	Y
Do not print Blank pages	Y*3	Y	N	N	N	N	N
Dithering	Y	Y	Y	Y	Y	Y	Y
Edge Smoothing	Y	Y	Y	Y	Y	Y	Y
Toner Saving	Y	Y	Y	Y	Y	Y	Y
User ID	Y	Y	Y	Y	Y	Y	Y*1
User Code	Y	Y	Y	Y	Y	Y	Y*1
User Authentication	Y	Y	N	N	N	N	N

Model	PCL 5e/6	RPCS	PostScript3				
			Windows 9x / Me	Windows NT4	Windows 2000/XP	Mac OS 8.6~9.2	Mac OSX
Encryption/Encoding	Y	Y	N	N	N	N	N
User Defined Pages	Y	N	N	N	N	N	N
Mirror Image Print	N	N	Y	Y	Y	N	N
Negative Image Print	N	N	Y	Y	Y	N	N
Edge to Edge Print	Y	Y	N	N	N	N	N
Limitation setting	Y	Y	N	N	N	N	N

Y: supported
N: not supported
*1: Printer Driver CD does not include PCL5e. It will be provided on Web site.

Other MFP Support Information
Not Applicable

Counter Information
Type of counter

	Type	Description of what is included in Meter	Q'ty	Location	Total number of digits
1	Electronic	Total Counter	1	Control Panel	8
2	Electronic	Copier Counter	1	Control Panel	8
3	Electronic	Printer Counter (B & W)	1	Control Panel	8
4	Electronic	Scanner Counter	1	Control Panel	8
5	Mechanical	Total Counter	1	Behind inner cover	7

Specification

	Type	Description of what is included in Meter	Max Value	Next value after max value
1	Electronic	Total Counter	99,999,999	Roll over to Zero again
2	Electronic	Copier Counter	99,999,999	Roll over to Zero again
3	Electronic	Printer Counter	99,999,999	Roll over to Zero again
4	Electronic	Scanner Counter	99,999,999	Roll over to Zero again
5	Mechanical	Total Counter	9,999,999	Roll over to Zero again

Paper

Recommended Throughput Material
Not Applicable

Non Recommended Throughput Material
Refer to pages in the Operators Instructions Hardware Guide.

Do not use any of the following kinds of paper or a fault might occur:

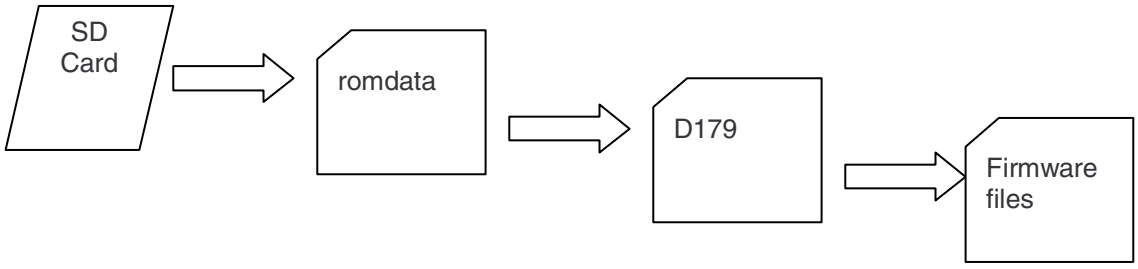
- Aluminum Foil, Carbon paper,
- Conductive paper
- Paper meant for an inkjet printer
- Bent, folded, or creased paper
- Torn paper
- Thermal fax paper
- Art paper
- Paper with perforated lines
- Hemmed-edge paper
- Slippery paper
- Perforated paper
- Rough paper
- Thin paper with little stiffness
- Paper with a dusty surface

Special Paper
Not available at time of product launch.

Firmware Information
Firmware

Firmware SD Card	Firmware Type
System/Copy	Controller
Engine	Engine (IOB/BCU)
LCDC	Operation Panel
ADF	Document Feeder
Network Support	Network
Language	Operation Language
Printer	Printer Operation
Scanner	Scanner Operation
Websupport	Web Support
WebUApl	Web User Application

SD Card Arrangement



Contact Information

Name	Contact
Technical Services Call Center (Hotline)	Ricoh: (800) 537-4264 Savin: (800) 291-6044 Lanier: (800) 333-3147
Application Help Desk (Software Issues)	Ricoh Phone Card: 2 Call - 000781MIU, 5 Call - 000900MIU Savin Phone Card: 2 Call - 12992, 5 Call - 12993
Hytec Parts and Logistics Control	(800) 883-1001 www.hytecrepair.com
Technology Solutions Resource Center	http://www.tscweb.net
Headquarter Web Sites	Ricoh Corporation: http://www.ricoh-usa.com Savin Corporation: http://www.savin.com Gestetner Corporation: http://www.gestetnerusa.com/ Lanier Corporation: http://www.lanier.com
Material Safety Data Sheets	(800) 336-MSDS (6737)
Ricoh Learning Institute	973.882.2200. email address: www.ricohlearninginstitute.com

Documentation

Description	Content ID
D179 / D180 /D181 Service Manual	rfg058090
D179 / D180 / D181 Detailed Descriptions	rfg058084
D179 / D180 /D181 Point to Point Diagrams	rfg058092
D179 / D180 /D181 3D Parts Catalog (PDF)	rfg058391
D179 / D180 /D181 3D Parts Catalog (ZIP)	rfg058318
D179 / D180 /D181 Operating Instruction Manuals	rfg058093

Training Prerequisites

The Pro 8100 (D179) Series Service Tier 1 self paced training course emphasizes the print processes, installation, and basic printing. A minimum of 6 hours should be scheduled to properly complete this training and review this new material.

Training Method

The Pro 8100EX/Pro 8100s/Pro 8110s/Pro 8120s (D179/D180/D181) Tier 2 Service Training instructor led training is a five day course providing the students with hands-on time covering setup, removal and replacement, adjustments, maintaining print quality and other recommended periodic maintenance and troubleshooting.

Please refer to the https://ricohusa.csod.com/client/ricohusa/default.aspxweb site for the most up to date training information.

Please be aware that once a model or series is out of production, the Field Service Manual, Technical Service Bulletins and Ricoh University should be referenced for the most current information. Check the TSC website and e-source.

Revisions

1.0 Original
2.0 August 28, 2013. Corrected version and file name.